SWP Weekly Water Quality Summary

March 29 to April 6, 2010

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP) and Vallecitos, but decreased at Check 41 and Barker Slough from March 29 to April 6, 2010. Concentrations ranged from 424 to 584 µS/cm (254 to 350 mg/L), below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L.) As of April 6, 2010, the lowest concentration of 424 µS/cm occurred at Check 41, while the highest concentration of 584 µS/cm occurred at HBP. EC concentration at HBP increased from 450 µS/cm to 584 µS/cm, as of April 6, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.18 to 0.30 mg/L. As of April 6, Check 41 had the lowest concentration of 0.18 mg/L, while the highest concentration of 0.30 mg/L occurred at HBP. The average daily bromide concentration at HBP was 0.30 mg/L as of April 6, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: This week turbidity levels increased at Check 41 and Barker Slough, but decreased at HBP and Vallecitos. Turbidity levels ranged from 4.8 to 36.3 NTU during the week. As of April 6, 2010, the lowest level of 4.8 NTU occurred at HBP, while the highest level of 36.3 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 9.1 NTU to 4.8 NTU as of April 6, 2010.

Dissolved Organic Carbon (DOC): Concentrations decreased slightly from 6.5 to 5.7 mg/L at HBP and from 6.5 mg/L to 6.0 mg/L at Check 13, but increased from 4.3 to 4.8 mg/L at Edmonston PP, as of April 6, 2010.

Taste and Odor Compounds: As of March 30, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 6 ng/L at Clifton Court Inlet, HBP, Lake Del Valle Check 7, O'Neill Forebay Outlet (Check 13), Lake Mathews, Check 41, Check 66, Castaic Lake, Lake Perris and Silverwood Lake.

Ground water pump-ins to the California Aqueduct from March 29 to April 6, 2010 totaled 10,229AF. The break down of the total volume was:

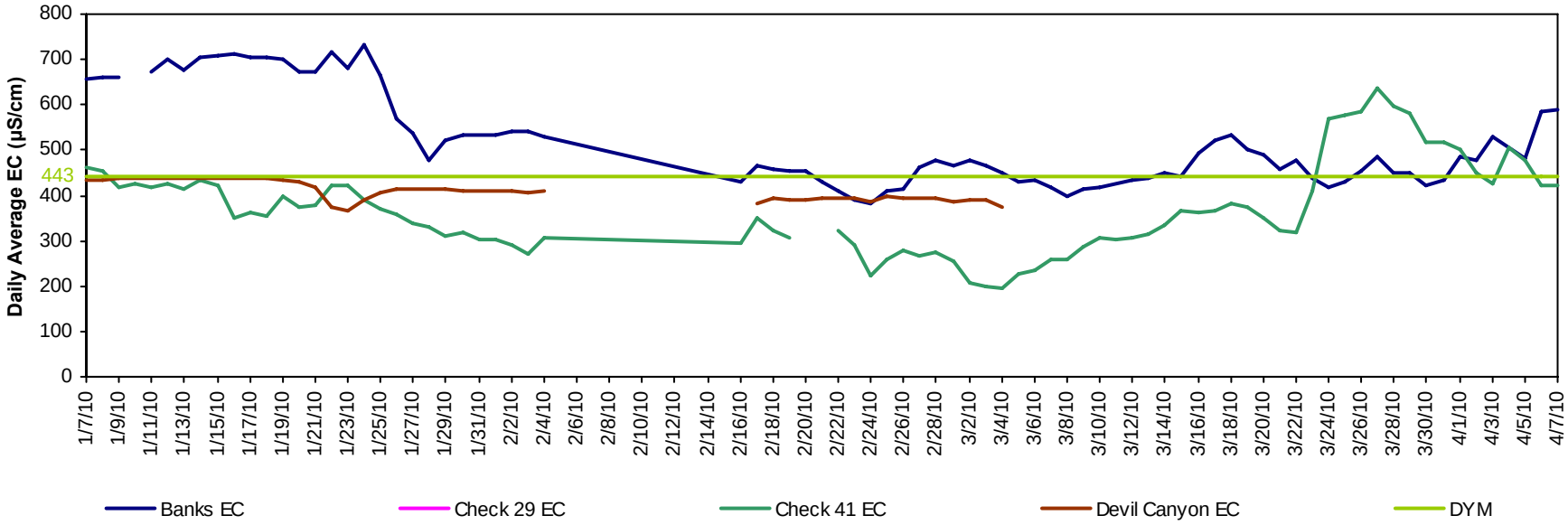
- Arvin Edison Water Storage District = 3 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 2,219 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 5,940 AF
- Semitropic (2&3) Water Storage District = 26 AF
- Wheeler Ridge Maricopa Water Storage District = 2,041

As of April 6, 2010, no data were available for Check 29 and Devil Canyon due to malfunctioning instruments and the water quality station upgrades currently underway.

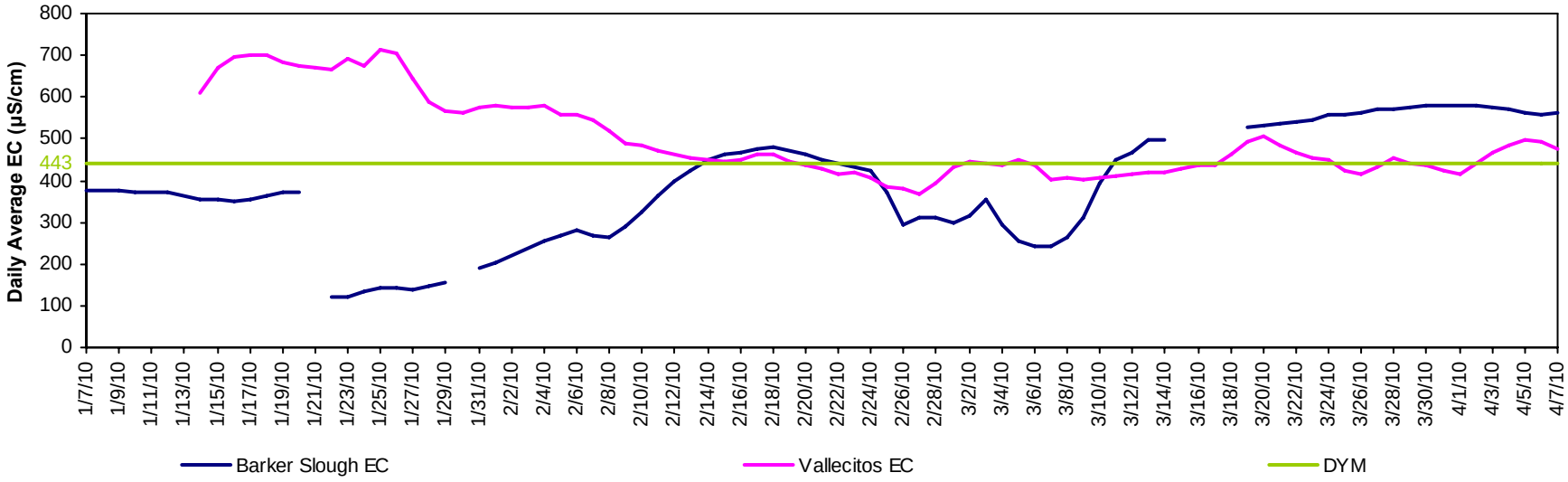
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

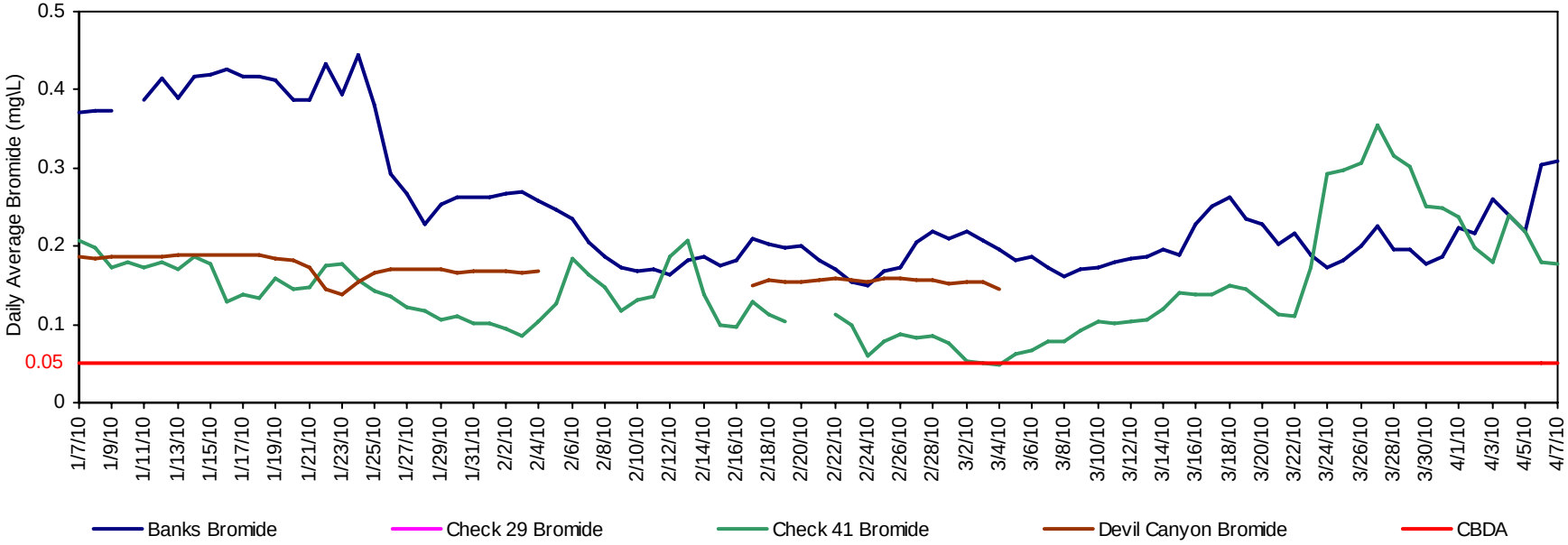
California Aqueduct - Electrical Conductivity



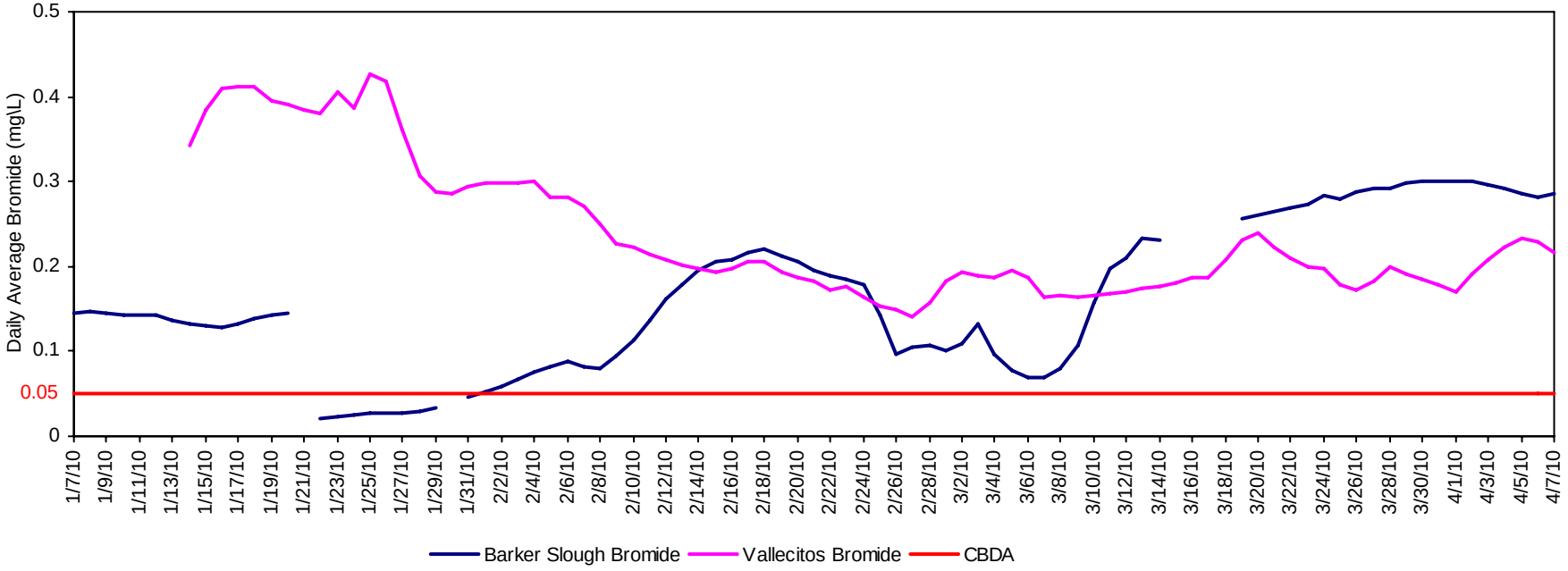
North and South Bay Aqueduct - Electrical Conductivity



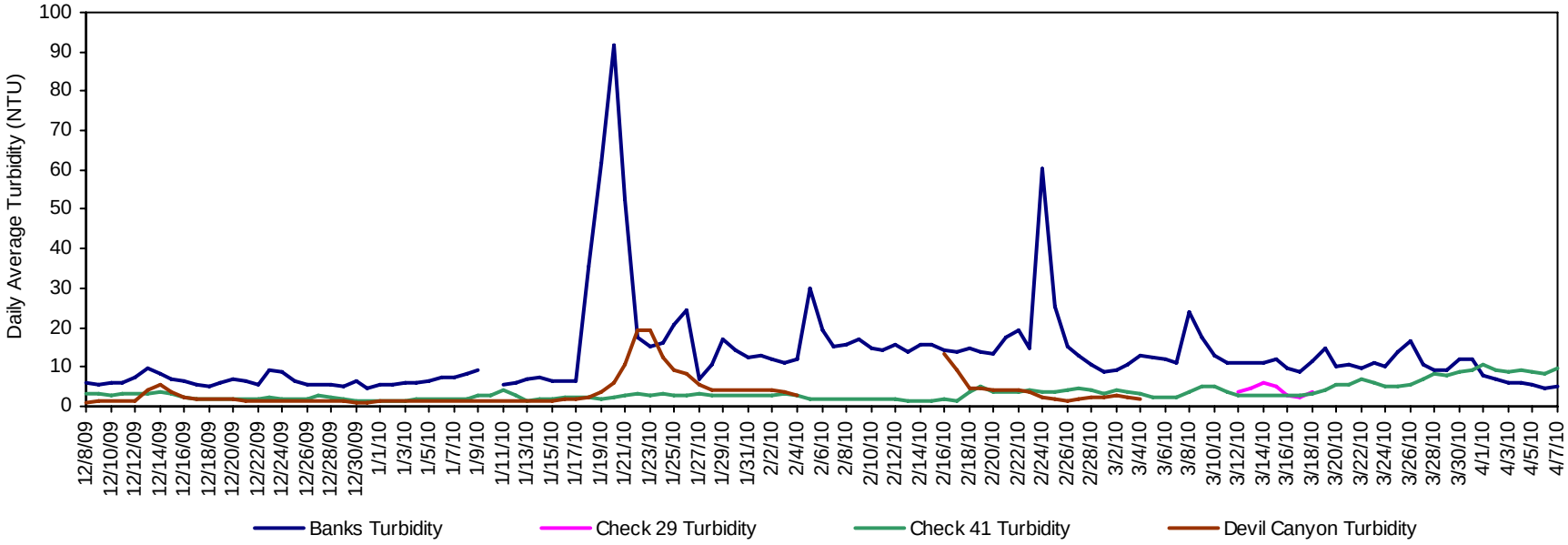
California Aqueduct - Calculated Bromide



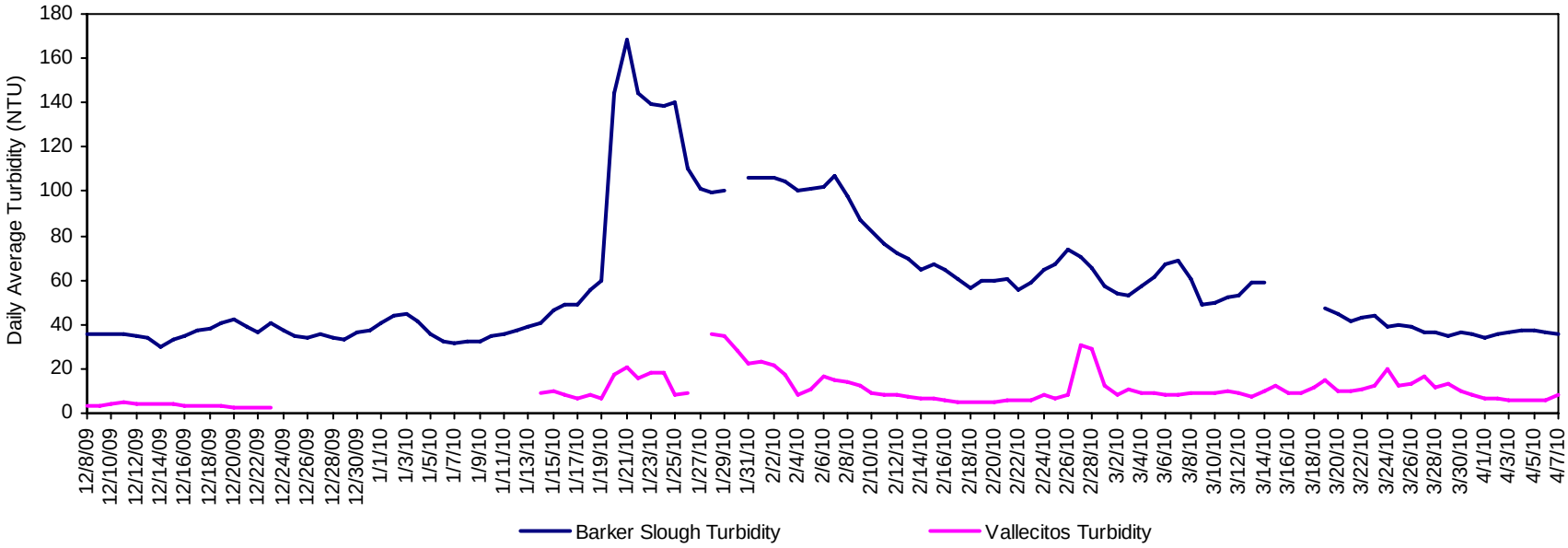
North and South Bay Aqueduct - Calculated Bromide

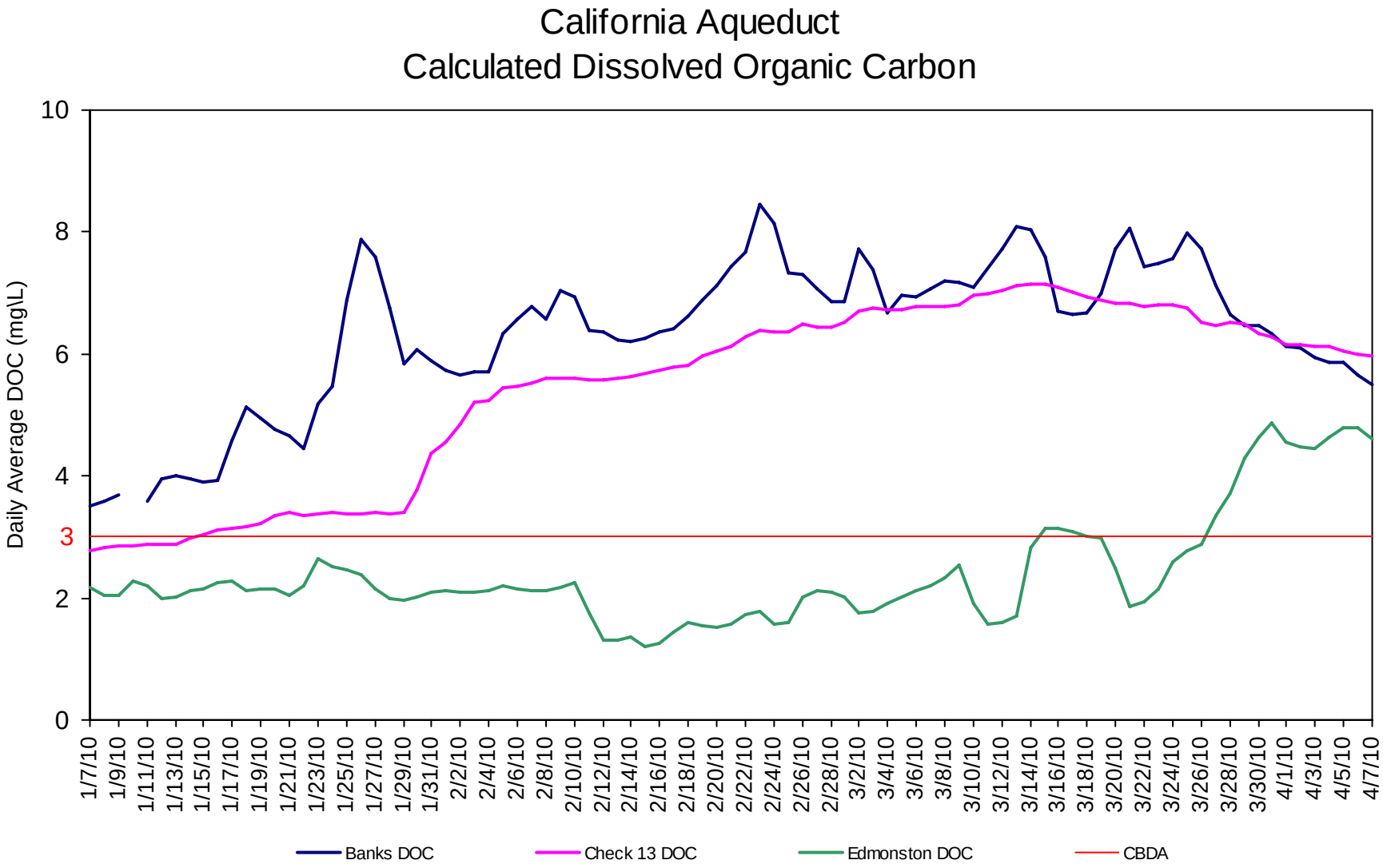


California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity




California Aqueduct
Calculated Dissolved Organic Carbon
Daily Average DOC (mg\L)
10
8
6
4
3
2
0
1/7/10
1/9/10
1/11/10
1/13/10
1/15/10
1/17/10
1/19/10
1/21/10
1/23/10
1/25/10
1/27/10
1/29/10
1/31/10
2/2/10
2/4/10
2/6/10
2/8/10
2/10/10
2/12/10
2/14/10
2/16/10
2/18/10
2/20/10
2/22/10
2/24/10
2/26/10
2/28/10
3/2/10
3/4/10
3/6/10
3/8/10
3/10/10
3/12/10
3/14/10
3/16/10
3/18/10
3/20/10
3/22/10
3/24/10
3/26/10
3/28/10
3/30/10
4/1/10
4/3/10
4/5/10
4/7/10
Banks DOC
Check 13 DOC
Edmonston DOC
CBDA